



SEQUENCE LISTING

<110> MYNARCIK, DENNIS C.

<120> PROTEIN BINDING DETERMINATION AND MANIPULATION

<130> 21438/1

<140> 10/620,491

<141> 2003-07-16

<150> 60/396,428

<151> 2002-07-17

<160> 4

<170> PatentIn Ver. 3.3

<210> 1

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1

Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu
1 5 10 15

<210> 2

<211> 508

<212> PRT

<213> Homo sapiens

<400> 2

Met Asp His Leu Gly Ala Ser Leu Trp Pro Gln Val Gly Ser Leu Cys
1 5 10 15

Leu Leu Leu Ala Gly Ala Ala Trp Ala Pro Pro Pro Asn Leu Pro Asp
20 25 30

Pro Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu
35 40 45

Glu Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp
50 55 60

Glu Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser
65 70 75 80

Tyr Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala
85 90 95

Pro Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala
100 105 110

Asp	Thr	Ser	Ser	Phe	Val	Pro	Leu	Glu	Leu	Arg	Val	Thr	Ala	Ala	Ser
		115					120					125			
Gly	Ala	Pro	Arg	Tyr	His	Arg	Val	Ile	His	Ile	Asn	Glu	Val	Val	Leu
	130					135					140				
Leu	Asp	Ala	Pro	Val	Gly	Leu	Val	Ala	Arg	Leu	Ala	Asp	Glu	Ser	Gly
145					150					155					160
His	Val	Val	Leu	Arg	Trp	Leu	Pro	Pro	Pro	Glu	Thr	Pro	Met	Thr	Ser
				165					170					175	
His	Ile	Arg	Tyr	Glu	Val	Asp	Val	Ser	Ala	Gly	Asn	Gly	Ala	Gly	Ser
			180					185					190		
Val	Gln	Arg	Val	Glu	Ile	Leu	Glu	Gly	Arg	Thr	Glu	Cys	Val	Leu	Ser
		195					200					205			
Asn	Leu	Arg	Gly	Arg	Thr	Arg	Tyr	Thr	Phe	Ala	Val	Arg	Ala	Arg	Met
	210					215					220				
Ala	Glu	Pro	Ser	Phe	Gly	Gly	Phe	Trp	Ser	Ala	Trp	Ser	Glu	Pro	Val
225					230					235					240
Ser	Leu	Leu	Thr	Pro	Ser	Asp	Leu	Asp	Pro	Leu	Ile	Leu	Thr	Leu	Ser
				245					250					255	
Leu	Ile	Leu	Val	Val	Ile	Leu	Val	Leu	Leu	Thr	Val	Leu	Ala	Leu	Leu
			260					265					270		
Ser	His	Arg	Arg	Ala	Leu	Lys	Gln	Lys	Ile	Trp	Pro	Gly	Ile	Pro	Ser
		275					280					285			
Pro	Glu	Ser	Glu	Phe	Glu	Gly	Leu	Phe	Thr	Thr	His	Lys	Gly	Asn	Phe
	290					295					300				
Gln	Leu	Trp	Leu	Tyr	Gln	Asn	Asp	Gly	Cys	Leu	Trp	Trp	Ser	Pro	Cys
305					310					315					320
Thr	Pro	Phe	Thr	Glu	Asp	Pro	Pro	Ala	Ser	Leu	Glu	Val	Leu	Ser	Glu
				325					330					335	
Arg	Cys	Trp	Gly	Thr	Met	Gln	Ala	Val	Glu	Pro	Gly	Thr	Asp	Asp	Glu
			340					345					350		
Gly	Pro	Leu	Leu	Glu	Pro	Val	Gly	Ser	Glu	His	Ala	Gln	Asp	Thr	Tyr
		355					360					365			
Leu	Val	Leu	Asp	Lys	Trp	Leu	Leu	Pro	Arg	Asn	Pro	Pro	Ser	Glu	Asp
	370					375					380				
Leu	Pro	Gly	Pro	Gly	Gly	Ser	Val	Asp	Ile	Val	Ala	Met	Asp	Glu	Gly
385					390					395					400
Ser	Glu	Ala	Ser	Ser	Cys	Ser	Ser	Ala	Leu	Ala	Ser	Lys	Pro	Ser	Pro
				405					410					415	

Glu	Gly	Ala	Ser	Ala	Ala	Ser	Phe	Glu	Tyr	Thr	Ile	Leu	Asp	Pro	Ser
			420					425					430		
Ser	Gln	Leu	Leu	Arg	Pro	Trp	Thr	Leu	Cys	Pro	Glu	Leu	Pro	Pro	Thr
		435					440					445			
Pro	Pro	His	Leu	Lys	Tyr	Leu	Tyr	Leu	Val	Val	Ser	Asp	Ser	Gly	Ile
	450					455					460				
Ser	Thr	Asp	Tyr	Ser	Ser	Gly	Asp	Ser	Gln	Gly	Ala	Gln	Gly	Gly	Leu
465					470					475					480
Ser	Asp	Gly	Pro	Tyr	Ser	Asn	Pro	Tyr	Glu	Asn	Ser	Leu	Ile	Pro	Ala
				485					490					495	
Ala	Glu	Pro	Leu	Pro	Pro	Ser	Tyr	Val	Ala	Cys	Ser				
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<210> 3
<211> 226
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic construct

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Leu	Leu	Ala	Ala	Arg	Gly	Pro	Glu	Glu	Leu	Leu	Cys	Phe	Thr	Glu	Arg
			20					25					30		
Leu	Glu	Asp	Leu	Val	Cys	Phe	Trp	Glu	Glu	Ala	Ala	Ser	Ala	Gly	Val
		35					40					45			
Gly	Pro	Gly	Gln	Tyr	Ser	Phe	Ser	Tyr	Gln	Leu	Glu	Asp	Glu	Pro	Trp
	50					55					60				
Lys	Leu	Cys	Arg	Leu	His	Gln	Ala	Pro	Thr	Ala	Arg	Gly	Ala	Val	Arg
65					70					75					80
Phe	Trp	Cys	Ser	Leu	Pro	Thr	Ala	Asp	Thr	Ser	Ser	Phe	Val	Pro	Leu
				85					90					95	
Glu	Leu	Arg	Val	Thr	Ala	Ala	Ser	Gly	Ala	Pro	Arg	Tyr	His	Arg	Val
			100					105					110		
Ile	His	Ile	Asn	Glu	Val	Val	Leu	Leu	Asp	Ala	Pro	Val	Gly	Leu	Val
		115					120					125			
Ala	Arg	Leu	Ala	Asp	Glu	Ser	Gly	His	Val	Val	Leu	Arg	Trp	Leu	Pro
	130					135					140				
Pro	Pro	Glu	Thr	Pro	Met	Thr	Ser	His	Ile	Arg	Tyr	Glu	Val	Asp	Val
145					150					155					160

Ser Ala Gly Gln Gly Ala Gly Ser Val Gln Arg Val Glu Ile Leu Glu
165 170 175

Gly Arg Thr Glu Cys Val Leu Ser Asn Leu Arg Gly Arg Thr Arg Tyr
180 185 190

Thr Phe Ala Val Arg Ala Arg Met Ala Glu Pro Ser Phe Gly Gly Phe
195 200 205

Trp Ser Glu Trp Ser Glu Pro Val Ser Leu Leu Thr Pro Ser Asp Leu
210 215 220

Asp Pro
225

<210> 4

<211> 226

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<400> 4

Ala Pro Pro Pro Asn Leu Pro Asp Pro Lys Phe Glu Ser Lys Ala Ala
1 5 10 15

Leu Leu Ala Ala Arg Gly Pro Glu Glu Leu Leu Cys Phe Thr Glu Arg
20 25 30

Leu Glu Asp Leu Val Cys Phe Trp Glu Glu Ala Ala Ser Ala Gly Val
35 40 45

Gly Pro Gly Gln Tyr Ser Phe Ser Tyr Gln Leu Glu Asp Glu Pro Trp
50 55 60

Lys Leu Cys Arg Leu His Gln Ala Pro Thr Ala Arg Gly Ala Val Arg
65 70 75 80

Phe Trp Cys Ser Leu Pro Thr Ala Asp Thr Ser Ser Phe Val Pro Leu
85 90 95

Glu Leu Arg Val Thr Ala Ala Ser Gly Ala Pro Arg Tyr His Arg Val
100 105 110

Ile His Ile Asn Glu Val Val Leu Leu Asp Ala Pro Val Gly Leu Val
115 120 125

Ala Arg Leu Ala Asp Glu Ser Gly His Val Val Leu Arg Trp Leu Pro
130 135 140

Pro Pro Glu Thr Pro Met Thr Ser His Ile Arg Tyr Glu Val Asp Val
145 150 155 160

Ser Ala Gly Gln Gly Ala Gly Ser Val Gln Arg Val Glu Ile Leu Glu
165 170 175

Gly Arg Thr Glu Cys Val Leu Ser Asn Leu Arg Gly Arg Thr Arg Tyr
180 185 190

Thr Phe Ala Val Arg Ala Arg Met Ala Glu Pro Ser Phe Gly Gly Phe
195 200 205

Trp Ser Glu Trp Ser Glu Pro Val Ser Leu Leu Thr Pro Ser Asp Leu
210 215 220

Asp Pro
225